CLAIMS

What is claimed is:

- 1. A improved game ball comprising:
 - a central core;
 - a first mantle layer surrounding said central core; and
 - a cover surrounding said first mantle layer.
- 2. The improved game ball as described in claim 1, wherein said central core comprises a first urethane composition.
- 3. The improved game ball as described in claim 2, wherein said first urethane composition includes a first mixture of a polyol and an isocyanate.
- 4. The improved game ball as described in claim 1, wherein said first mantle layer comprises a second urethane composition.
- 5. The improved game ball as described in claim 4, wherein said first urethane composition includes a second mixture of a polyol and an isocyanate.
- 6. The improved game ball as described in claim 2 further comprising:
- a second mantle layer surrounding said first mantle layer, said second mantle layer positioned between said first mantle layer and said cover.
- 7. The improved game ball as described in claim 5, wherein said second mantle layer comprises a third urethane composition.
- 8. The improved game ball as described in claim 7, wherein said third urethane composition includes a first mixture of a polyol and an isocyanate.
- 9. The improved game ball as described in claim 5 wherein said central core comprises a diameter substantially between 3.40 inches and 3.44 inches.
- 10. The improved game ball as described in claim 5 wherein said first mantle layer comprises a thickness of substantially between 0.05 inches and 0.500 inches.
- 11. The improved game ball as described in claim 5 wherein said second mantle layer comprises a thickness of substantially between 0.05 inches and 0.25 inches.
- 12. The improved game ball as described in claim 1, wherein said composite core has a coefficient of restitution at 88 feet-per-second within the range of 0.40 and 0.50.
- 13. The improved game ball as described in claim 1, wherein the compression of said softball is less than 475 pounds.

- 14. A multi-layer softball comprising:
- a composite core including a central core having a first urethane composition and a first mantle layer having a second urethane composition; and
 - a cover surrounding said composite core.
- 15. The multi-layer softball as described in claim 14 further comprising:
- a second mantle layer surrounding said first mantle layer, said second mantle layer positioned between said first mantle layer and said cover.
- 16. The multi-layer softball as described in claim 15, wherein said second mantle layer comprises a third urethane composition.
- 17. The multi-layer softball as described in claim 14 wherein said central core comprises a diameter substantially between 3.40 inches and 3.44 inches.
- 18. The multi-layer softball as described in claim 14 wherein said first mantle layer comprises a thickness of substantially between 0.05 inches and 0.500 inches.
- 19. The multi-layer softball as described in claim 14, wherein said composite core has a coefficient of restitution at 88 feet-per-second within the range of 0.40 and 0.50.
- 20. The multi-layer softball as described in claim 1, wherein the compression of said softball is less than 475 pounds.

LIT/820540.3